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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/817,068	03/26/2001	Eiji Shimose	FUJI 18.512	9829

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EXAMINER

JONES, PRENELL P

ART UNIT PAPER NUMBER

2667

DATE MAILED: 11/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/817,068

Applicant(s)

SHIMOSE, EIJI

Examiner

Prenell P Jones

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 26 March 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 4, 6 and 7 is/are allowed.
- 6) ☒ Claim(s) 1-3, 5 and 8 is/are rejected.
- 7) ☒ Claim(s) 9 and 10 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 2.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_\_.

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-3, 5 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Guo et al in view of Goodings et al.

Regarding claims 1 and 2, Guo discloses (Abstract, Fig. 1, col. 1, line 39 thru col. 2, line 21) an ALOHA random access scheme on both the forward (base station-to-mobiles) and reverse (mobiles-to-base station) directions whereby the architecture includes, (Fig. 2, 3A, 4A, col. 3, line 49 thru col. 5, line 67) a base station sending a message to a group of mobiles/terminals or all mobiles, fixed length packets as associated with the structure of packet data control broadcast channel, message broadcasting is conveyed via control information, request signal (first signal) with associated control message and response signals (second signal) with associated control message, such as, ARQ (first signal) and ACK (second signal) are communicated between base station and a plurality of mobiles, base station and mobile consist of both transmitter/receiver which include associated de-mux unit and mux unit, memory, DSP, encoding, modulation,

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decoding, demodulating, whereby the de-mux extracts messages, memory and buffers for storing information. Guo is silent on fixed data length to an overhead. In analogous art, Gooding (Abstract, col. 18, line13 thru col. 20, line 64, col. 25, line 7-29, col. 10, line 11-18) discloses a reducing collision between remote stations as associated in a ALOHA radio system, wherein the architecture includes fixed overheads (FOH) whereby overhead data is associated with control information, FOH contain different arrangement between slots and subslots (multiple of), bit-packet series, down packet length and up packet length (first/second data lengths), ACK mode defined in fixed overhead, ACK mode minimize acknowledged transmission on being lost, (col. 24, lines 7-8) message oriented. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to be motivated to implement message-oriented data having a fixed length to an overhead of further reducing collision as associated in a stream/packet based network.

Regarding claim 3, as indicated above, Gooding (Abstract, col. 18, line13 thru col. 20, line 64, col. 25, line 7-29) discloses a reducing collision between remote stations as associated in a ALOHA radio system, wherein the architecture includes fixed overheads (FOH) whereby overhead data is associated with control information, FOH contain different arrangement between slots and subslots (multiple of), bit-packet series, down packet length and up packet length (first/second data lengths), ACK mode defined in fixed overhead, ACK mode minimize acknowledged transmission on being lost, (col. 24, lines 7-8) message oriented. Gooding further discloses (col. 7, line 43-60, col. 9, line

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11-67) detecting first bit of each slot and block received as associated with first and second messages and associated padding.

Regarding claims 5 and 8, as indicated above, Guo discloses (Abstract, Fig. 1, col. 1, line 39 thru col. 2, line 21) an ALOHA random access scheme on both the forward (base station-to-mobiles) and reverse (mobiles-to-base station) directions whereby the architecture includes, (Fig. 2, 3A, 4A, Figs. 8 & 9, col. 3, line 49 thru col. 5, line 67) a base station sending a message to a group of mobiles/terminals or all mobiles, fixed length packets as associated with the structure of packet data control broadcast channel, message broadcasting is conveyed via control information, request signal (first signal) with associated control message and response signals (second signal) with associated control message, such as, ARQ (first signal) and ACK (second signal) are communicated between base station and a plurality of mobiles, base station and mobile consist of both transmitter/receiver which include associated de-mux unit and mux unit, memory, DSP, encoding, modulation, decoding, demodulating, whereby the de-mux extracts messages. Guo further discloses (Fig. 8 & 9, col. 4, line 1 thru col. 5, line 67, col. 14, line 7-65) error control (interruption detector), CRC code for detecting/correcting errors, terminals consist of internal memory which includes various, (col. 8, line 28 thru col. 11, line 50) base station and terminal architecture which includes error detection, buffers and memory for storing registration information, extracted and processed data, ARQ and ACK are stored in data buffers, and if error detection detects packet is corrupted (interrupt) a negative ACK is put in buffer.

***Allowable Subject Matter***

3. Claims 4, 6 and 7 are allowed.
4. Claims 9 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
5. The following is a statement of reasons for the indication of allowable subject matter: Although the combined cited discloses an ALOHA random access scheme on both the forward (base station-to-mobiles) and reverse (mobiles-to-base station) directions whereby the architecture includes, a base station sending a message to a group of mobiles/terminals or all mobiles, fixed length packets as associated with the structure of packet data control broadcast channel, message broadcasting is conveyed via control information, request signal (first signal) with associated control message and response signals (second signal) with associated control message, such as, ARQ (first signal) and ACK (second signal) are communicated between base station and a plurality of mobiles, base station and mobile consist of both transmitter/receiver which include associated de-mux unit and mux unit, memory, DSP, encoding, modulation, decoding, demodulating, whereby the de-mux extracts messages, memory and buffers for storing information, architecture includes FOH whereby overhead data is associated with control information, FOH contain different arrangement between slots and subslots (multiple of), bit-packet series, down packet length and up packet length (first/second

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data lengths), ACK mode defined in fixed overhead, ACK mode minimize acknowledged transmission on being lost, message oriented they fail to teach or suggest a main unit with a first memory for storing fixed length message data that includes interruption information at an address corresponding to slave units and a second memory for storing messages that are read from the first memory, from which the message is read out at timing corresponding to an overhead of a main signal, interruption detecting whether the message data is a first packet having a first fixed length or a second packet having a second fixed length and a masking unit invalidating interruption detection signal by each slave unit.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prenell P. Jones whose telephone number is 571-272-3180. The examiner can normally be reached on 9:00-5:30.

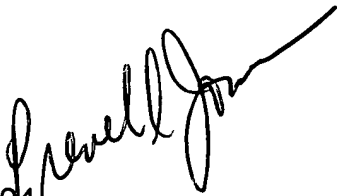
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Prenell P. Jones

November 28, 2004

A handwritten signature in black ink, appearing to read 'Prenell P. Jones', written over the date line.